CENTER FOR COMPUTER AIDED DESIGN & MANUFACTURING — CONTRACT AMOUNT: $450,000

Warren F. Phillips, Utah State University

The main focus is research in computerized drafting, 3-D design, solid modeling, finite element modeling, numerical controlled manufacturing, robotics, facilities management, plant monitoring and control, data base management and inventory planning.

Matching Funds: Source	In-Kind	Cash
Structural Dynamics Co.		$ 252,000
Dassault Systems Co.		219,000
Lockheed Co.		123,000
Mac-Neal Schwendler		72,000
Morton-Thiokol		75,000
Control Data		6,000
NASA		168,310
Consulting by Consortium	$ 42,717	
IBM		3,433,932
Subtotals	$ 42,717	$4,349,242
TOTAL:		$ 4,391,959

Companies Associated Since Contract (19)

Psomas & Associates
Yampa Valley Coal Corp.
ELC Electron Consulting Spa (Italy)
Alca Engineers
Pyramid Engineering
B&A Engineering Inc.
Raymond Vail & Associates
Central Utah Water Conservancy District
Jones & Associates
Hercules Inc.
Engineering Dept. of Bountiful, Utah
Department of Natural Resources, Division of Water Resources
Getty Mining Co.
Weber Basin Water Conservation
Emery Mining
Caldwell Richards & Swensen
Atascadero Mutual Water Co.
W.E. Quicksall & Associates Inc.
NASA

In-State Associations:

Autonetics Strategic Systems Division
Caldwell Richards & Swensen
Central Utah Water Conservancy District

Department of Natural Resources, Division of Water Resources
Elmco Process Equipment Co.
Emery Mining Corp.
Evans & Sutherland
Ford Bacon & Davis Engineers
Fram Autolight
Getty Mining Company
Hercules Inc.
Jones & Associates
Morton-Thiokol Inc.
Northwest Pipeline Corp.
Omnidata International
Rockwell International
TRW Ballistic Missiles
Utah Power & Light
Weber Basin Water Conservancy

Out-of-State Associations:
Structural Dynamics Co.
Dassault Systems Co.
Lockheed Co.
Mac-Neal Schwendler
Atascadero Mutual Water Co.
ELC-ELECTRONCONSULT
W. E. Quicksall & Assoc.
B. & A. Engineers, Inc.
Fars Regional Authority
Sierra Pacific Power Co.
Gingery Engineering Co.
UMA-Engineering Unlimited
KKBNA Engineers, Inc.
Howard Godat & Assoc., Inc.
Marbury Engineering Co.
Aktiengesellschaft
Boeing Computer Services
Oregon Institute of Technology
USAID/EQUADOR
City of Jacksonville, Fla.
Board of Public Utilities of Casper Wyoming
Office National de l'eau Potable in Moracco
EMC Engineering Co.
SAINCO
Universal Engineering Co.
Pyramid Engineers & Land Surveyors
J-U-B Engineers, Inc.
Center for Mgmt Utilities & Protection - Cookeville, TN
TRACOR Applied Sciences, Inc.
Forsgren-Perkins Engineering
TRACOR Hydronautics Inc.
West National Tech. Center - Portland, OR
SYMCAS, Inc.
Troltz King Durall Anderson & Assoc.

Costin Engineering Co.
FLOOD Engineers
Macolom-Pirnjie Consulting Engineers
Bohannan-Huston Inc.
Katholieke Univ. (Belgium)
Willidan Assoc.
ADEM Ingenieurs Consells (Belgium)
Eduardo Ribeiro de Souse (Portugal)
Roen Design Assoc.
Ford Engineering
CH2M-Hill
Wiley & Wilson
PRC Toups. Div. of PRC Engineering
AMAX Coal Co.
VTM Consolidated Inc.
FEMA
TUV
Goodyear Atomic Corp.
E. I. DuPont DeNemours & Co.
Robert C. Bogart & Assoc.
City of Lafayette, LA
PETRO Canada Exploration Inc.
Montgomery Engineers
CE-DATA A/S Byggeteknish (Denmark)
UN PROYECTO CONACYT CIQA (Mexico)
Merrick & Co.
Holmes & Marver Inc.
Banner & Assoc.
East Bay Municipal Utility - Oakland, CA
Pacific Power & Light of Portland
Psomas & Associates
Yampa Valley Coal Corp.
ELC Electron Consult Spa
Alca Engineers
Pyramid Engineering
Raymond Vail & Associates

Center for Computer Aided Design and Manufacturing
Contract #87-0441

Payments:	Amount	Balance
16 Jan 87	$ 19,855.76	$ 430,144.24
07 Dec 87	10,318.57	419,825.67
23 Jul 87	9,605.42	410,220.25
07 Dec 87	21,384.31	388,835.94
17 Feb 88	54,361.79	334,474.15

Total Payments: $115,525.85